T.M.

MOUNTAIN PINE BEETLE CONDITIONS DELL CREEK

TETON HATIONAL FOREST WYOMING

Setober 1955 - Appraisal Survey

By

R. I. Washburn Entomologist

An area containing a large number of "red top" lodgepole pine trees was located in the Dell Creek area by the aerial survey conducted September 1-2, 1955 (Teton National Forest and Teton National Park aerial survey by R. I. Washburn). An examination of the area by Mr. Paul Grossenbach, Timber Management, Regional Office, Forest Ranger Reynolds, Teton National Forest and Dick Washburn, Forest Insect Research, revealed that a very serious infestation of mountain pine beetle, Dendroctonus menticolae, was in progress, and that a forest insect appraisal survey would be needed in order to be able to fully evaluate the problem.

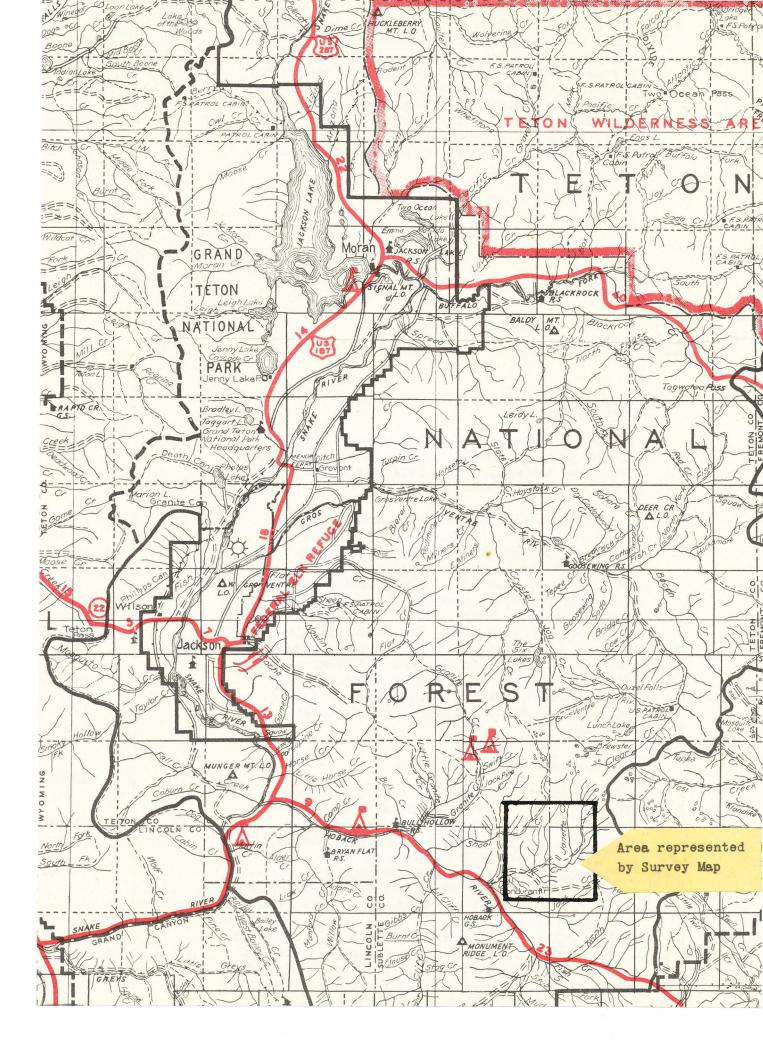
Accordingly, a systematic 10% ground cruise was conducted in the Dell Creek area during the week of October 10. A 1/5 acre circular plot was taken every 2 chains along parallel lines run in the cardinal direction most nearly at right angles to the major contour. The lines were run 10 chains apart and were tiedx into section lines to facilitate mapping. Information recorded included the number of infested trees that occurred on all of the 1/5 acre plots. In addition, the number of trees killed in 1954, trees killed prior to 1954, and the total number of green trees ever 6" DBH was recorded for every tenth plot.

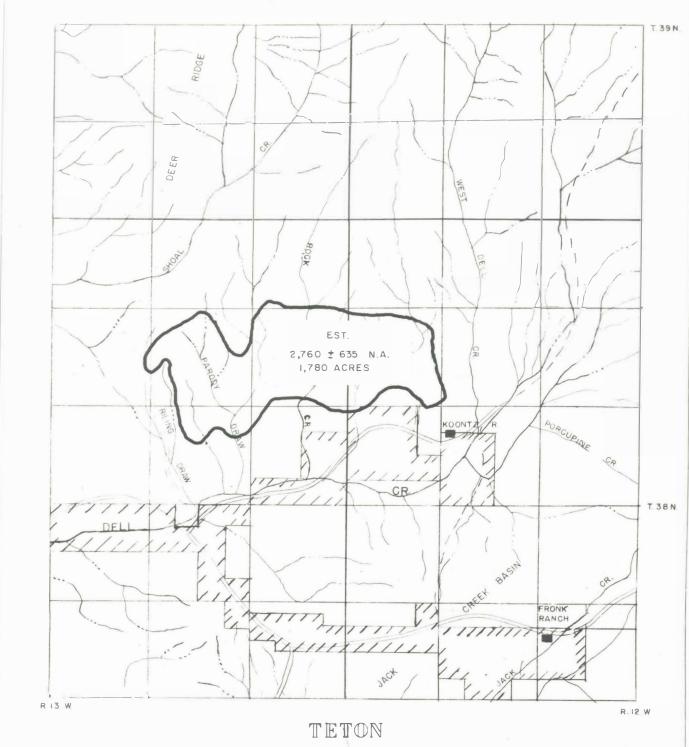
The results of the survey, which covered approximately 2,500 acres, show that the infested trees are located in an area of approximately 1,780 acres. This infested area contains an estimated 2,7602635 newly infested trees, which represents 1.6 trees per acre. The "green count" and mortality data indicate that 3% of the trees 6" DSH or over in the infested area are currently infested, and that in addition a total of about 9% of the stand has been killed by the mountain pine beetle in the three years before 1954. Therefore the loss to date including

the trees now infested is about 12% of the lodgepole pine in the area or approximately 1,200 M bd. ft. of timber.

It was apparent from the first "on-the-ground" examination made September 21 that this area contained a very serious mountain pine beetle outbreak that represents a potential threat to the vast bedies of lodgepole timber adjoining the area as well as the Dell Crock timber. The appraisal survey merely confirmed this observation and made available a reliable estimate necessary to plan and organize for a possible chemical control project next spring.

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WYOMING

DELL CREEK MT PINE BEETLE OUTBREAK INFESTED AREA

